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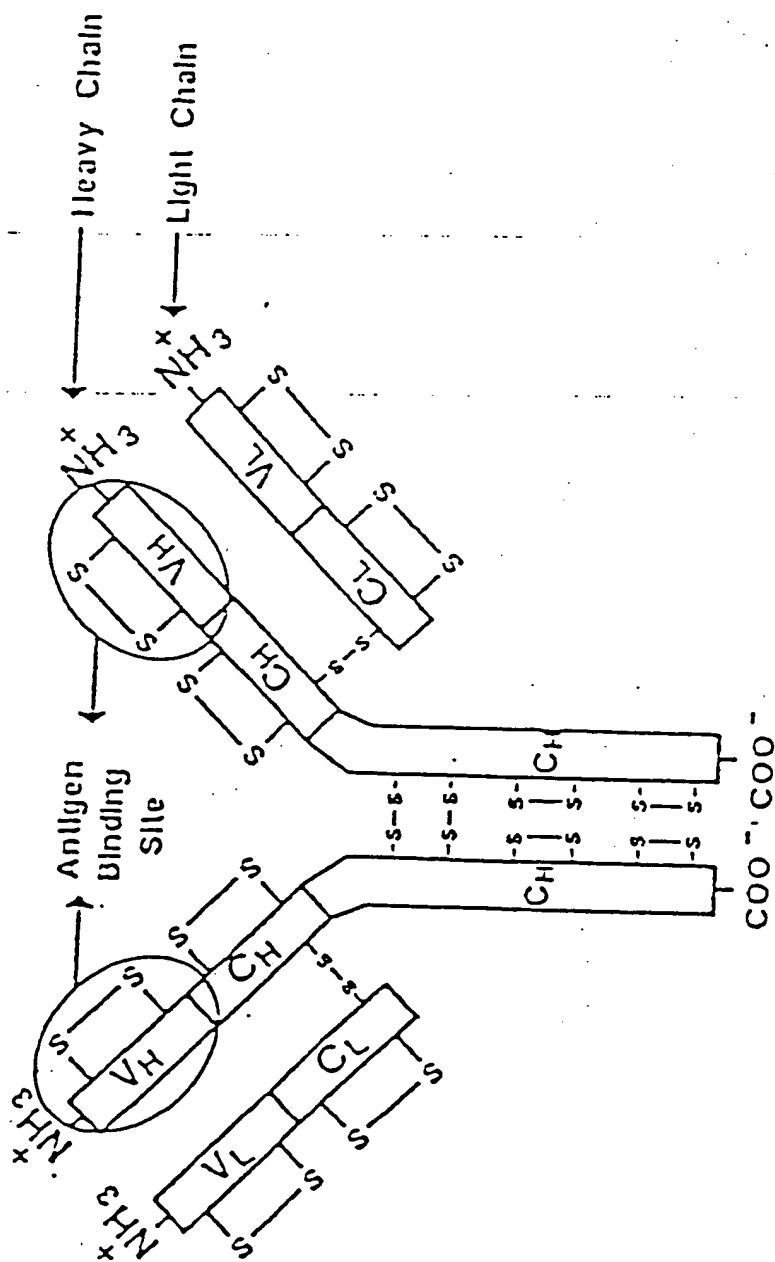
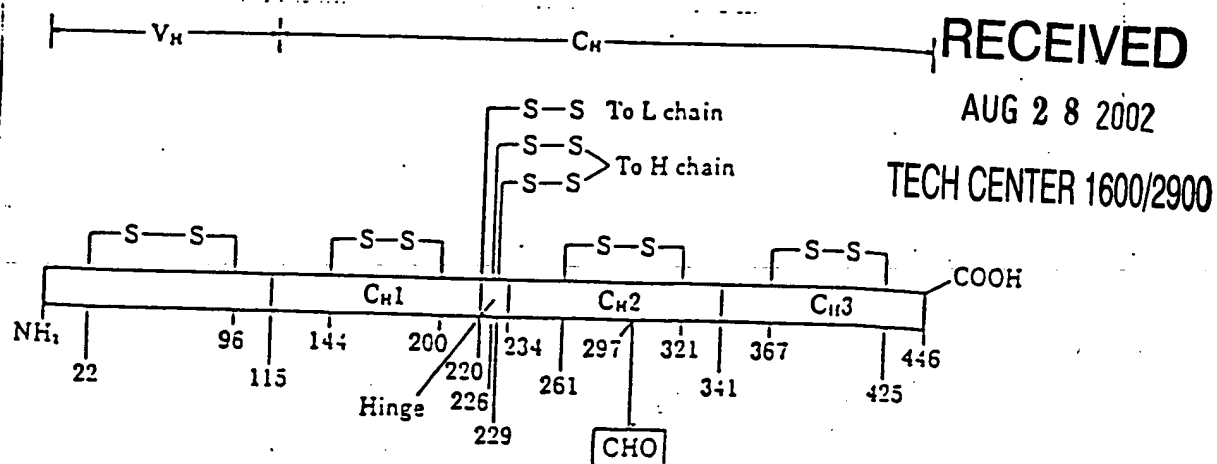


FIGURE 1



B

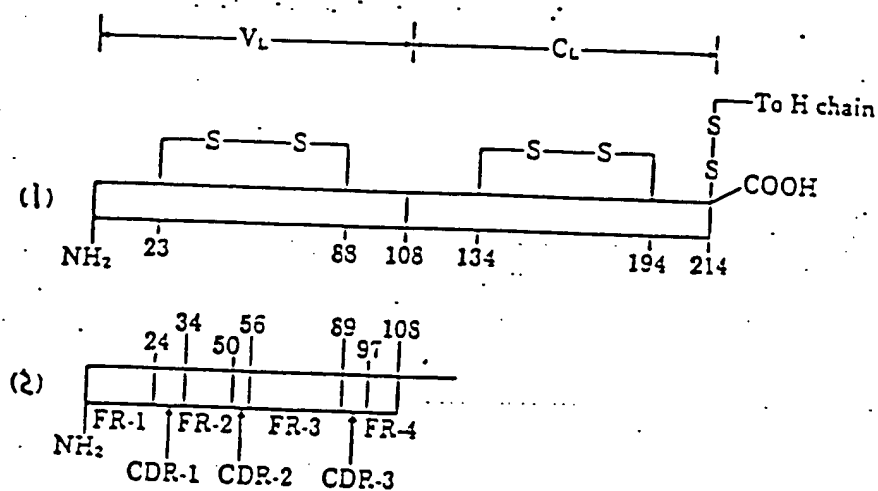


FIGURE 2

[illegible]

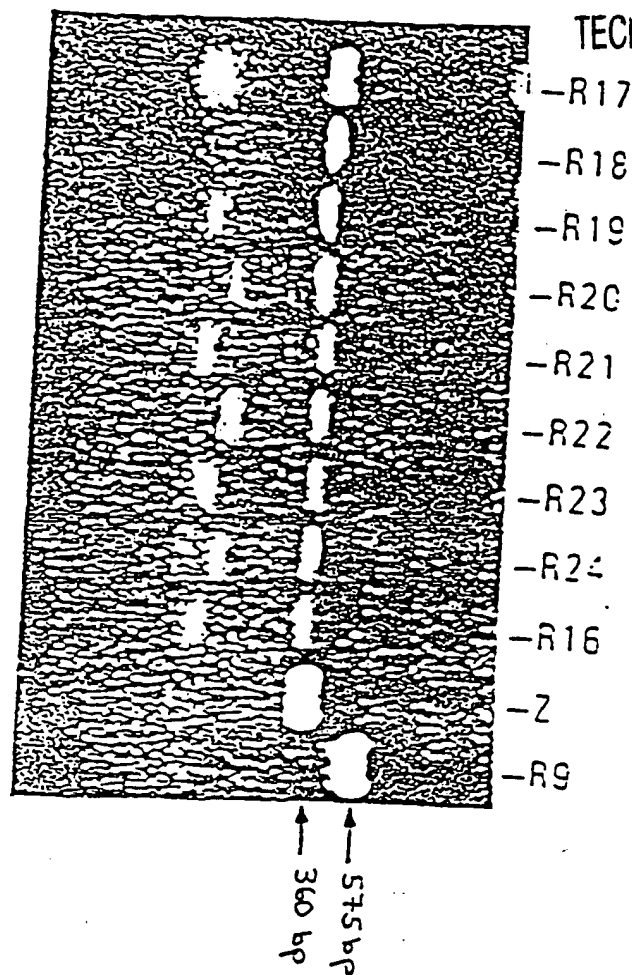


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FIGURE 4



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Subunit (A)
#139
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:20)

#140
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:21)

#141
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:22)

#142
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:23)

#143
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:24)

#144
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:25)

#145
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:26)

#146
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:27)

#147
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:28)

#148
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:29)

#149
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#150
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:31)

#151
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:32)

#152
CTCGAGTCTG GAGCTGGGCT GGTGAAGGCT TCTGAGTCTG TGTCTCTGAG CTGCTCTGCTGAGT GCACTGAGGCTGCTT (SEQ ID NO:33)

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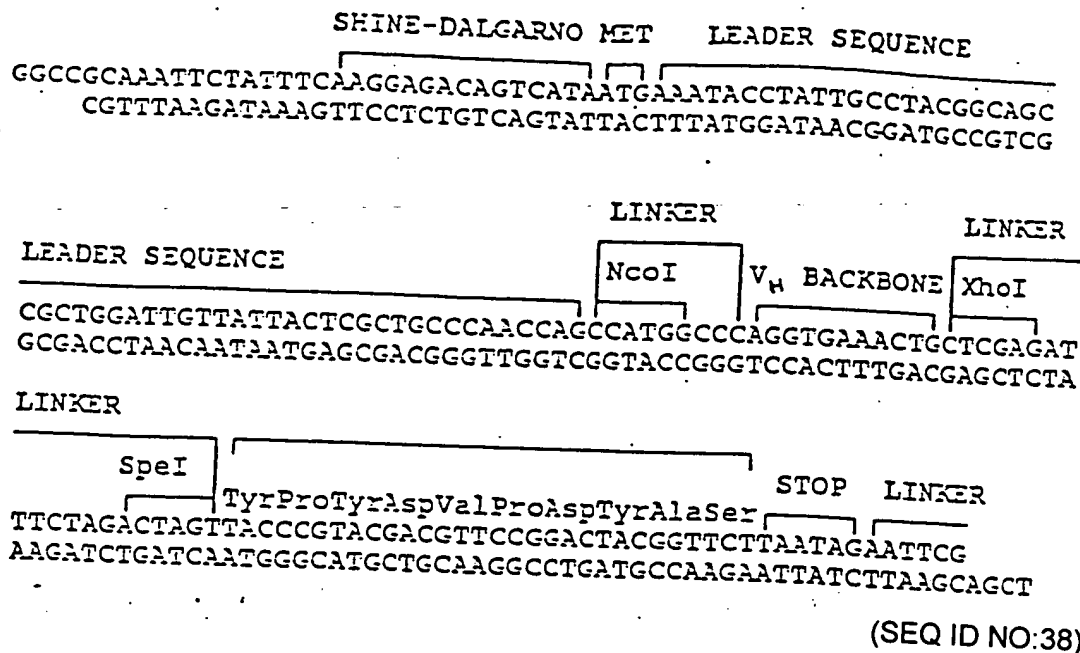


FIGURE 5



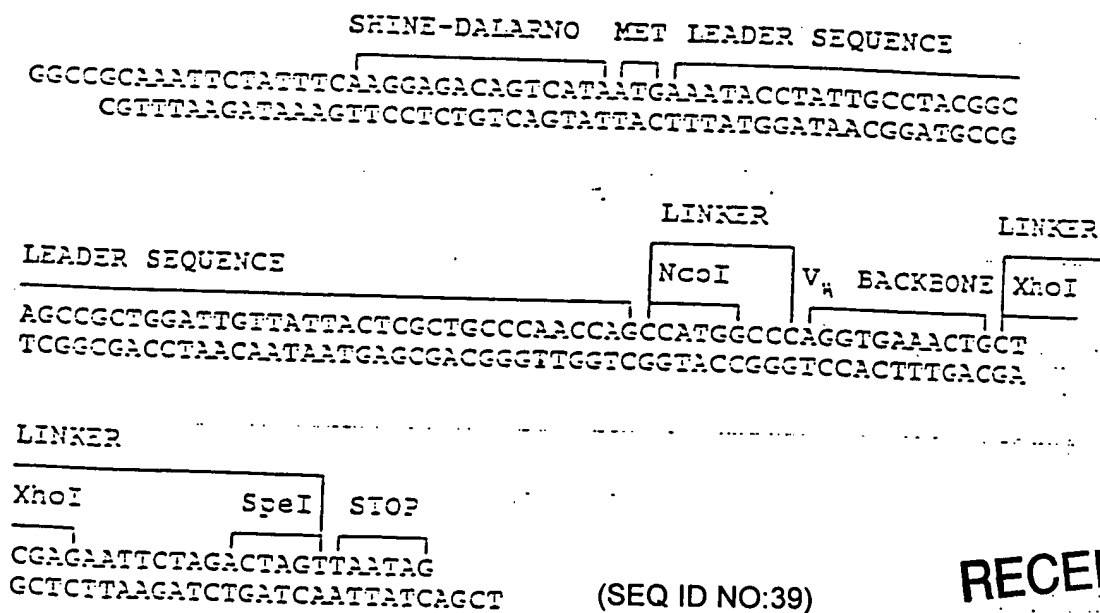
A

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B

V_h EXPRESSION VECTOR:



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FIGURE 6 .

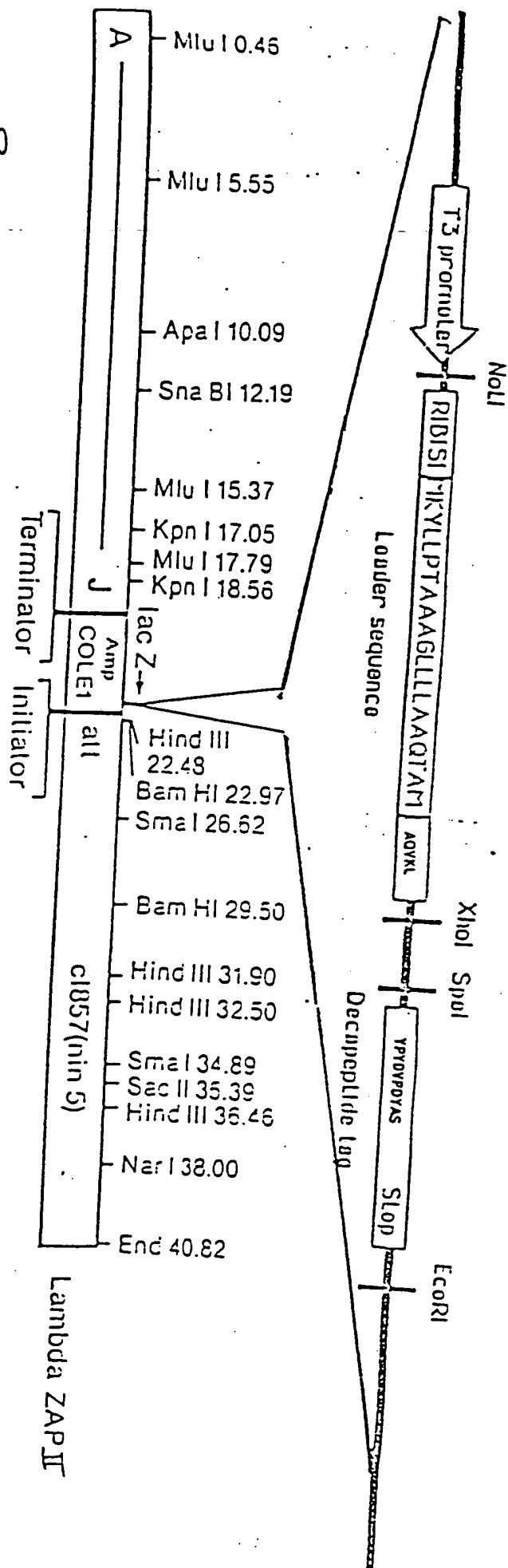


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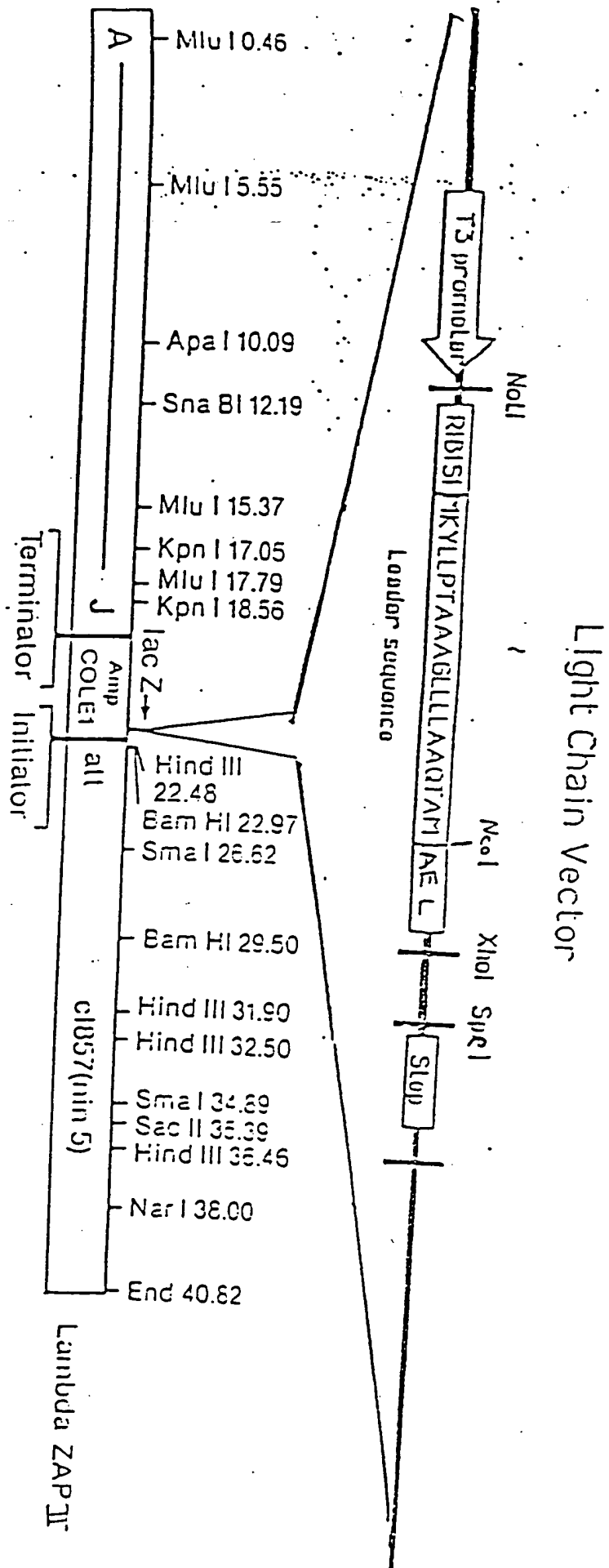
FIGURE 7





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FIGURE 8





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Light Chain Vector

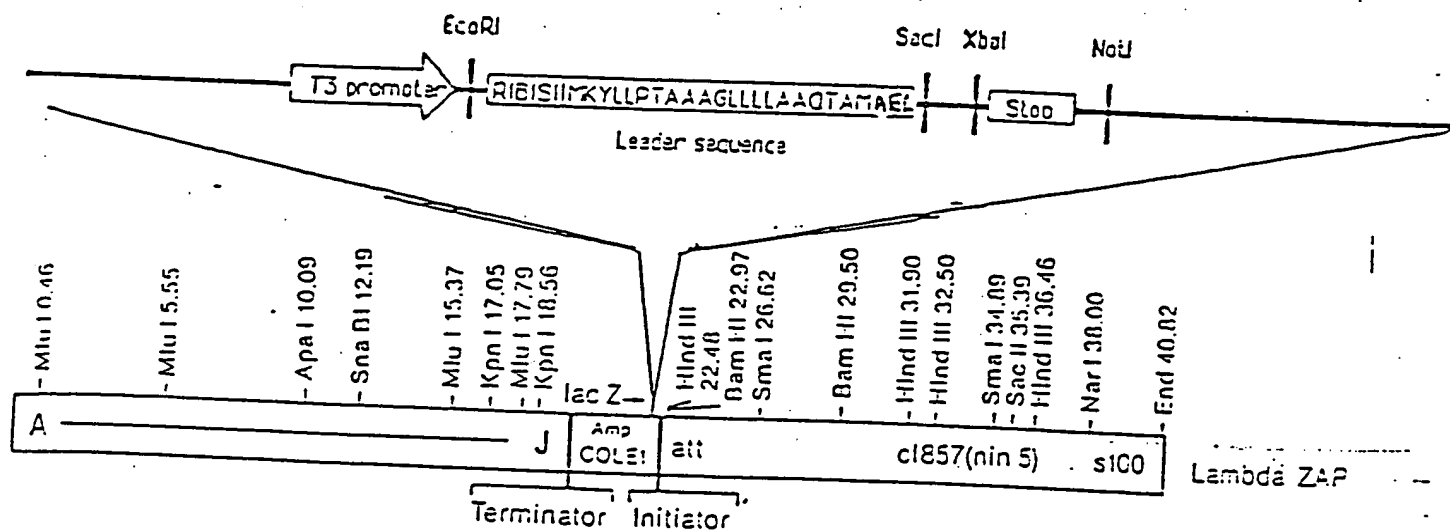


FIGURE 9



EcoR I SHINE-DALGARNO MET LEADER SEQUENCE
TGAATTCTAAACTAGTCGCCAAGGAGACAGTCATAATGAAATACCTATTGCCTACGGCA
TCGAACTTAAGATTTGATCAGCGGTTCTCTGTCAGTATTACTTTATGGATAACGGATGCCGT

LEADER SEQUENCE Nco I Sac I Xba I
CCGCTGGATTGTTATTACTCGCTGCCCAACCAGCCATGGCCGAGCTCGTCAGTTCTAGAGT
CGGCGACCTAACAATAATGAGCGACGGGTGGTCCGTACCGGCTCGAGCAGTCAAGATCTCA

Not I
TAAGCGGCCG
ATTCGCCGGCAGCT (SEQ ID NO:41)

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FIGURE 10

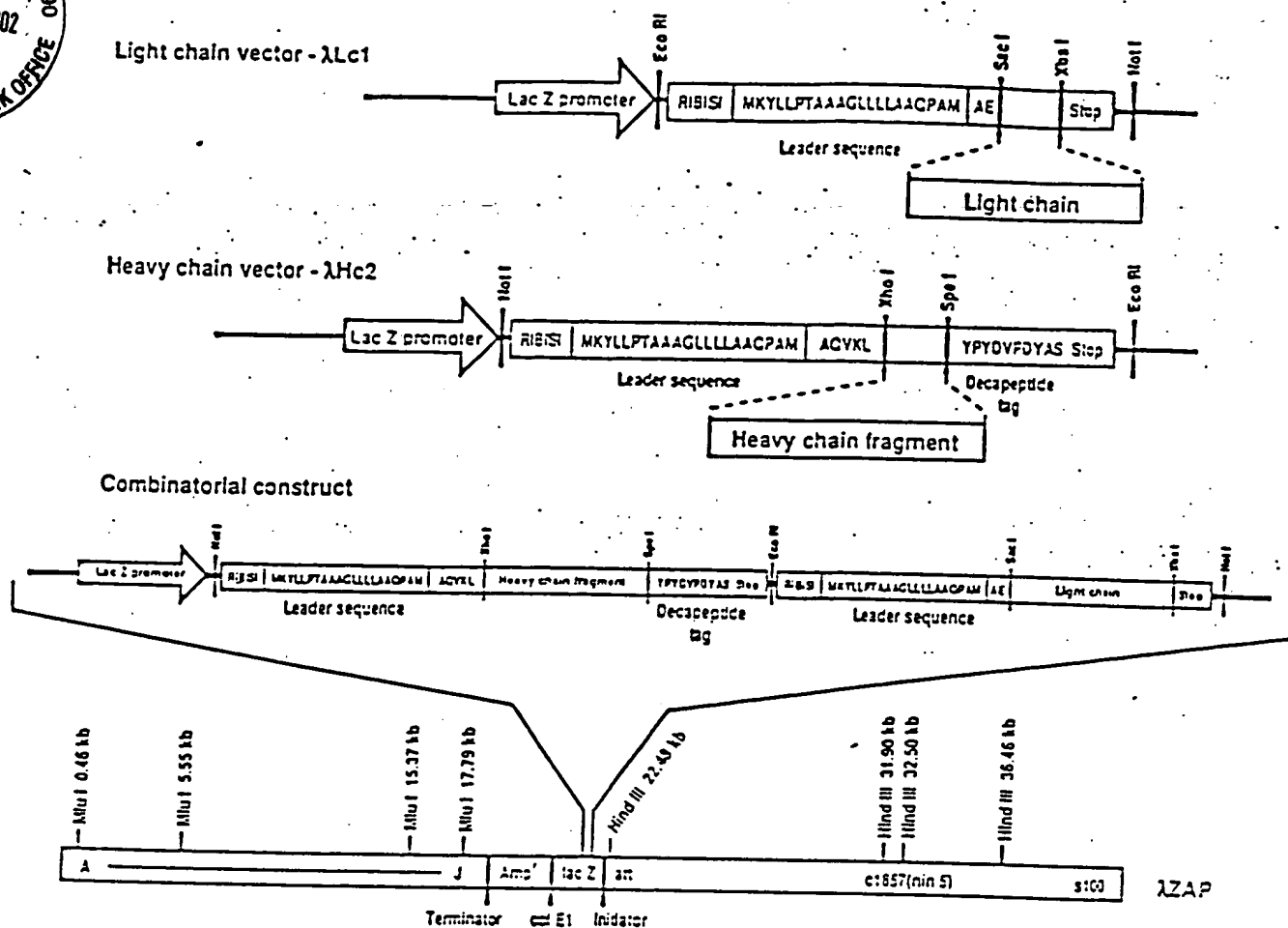


FIGURE 11

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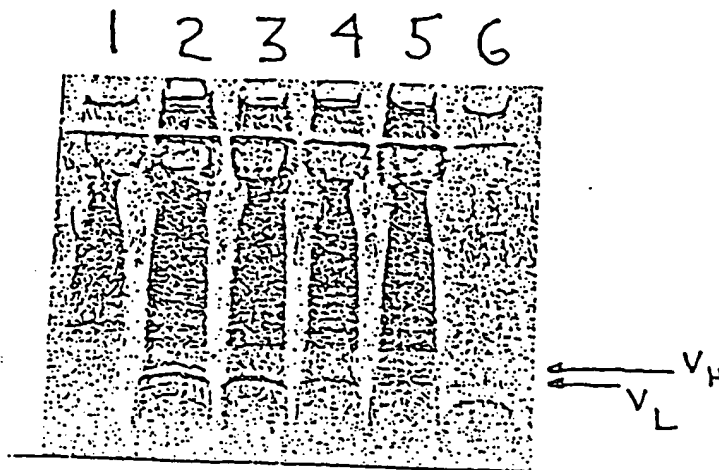


FIGURE 12



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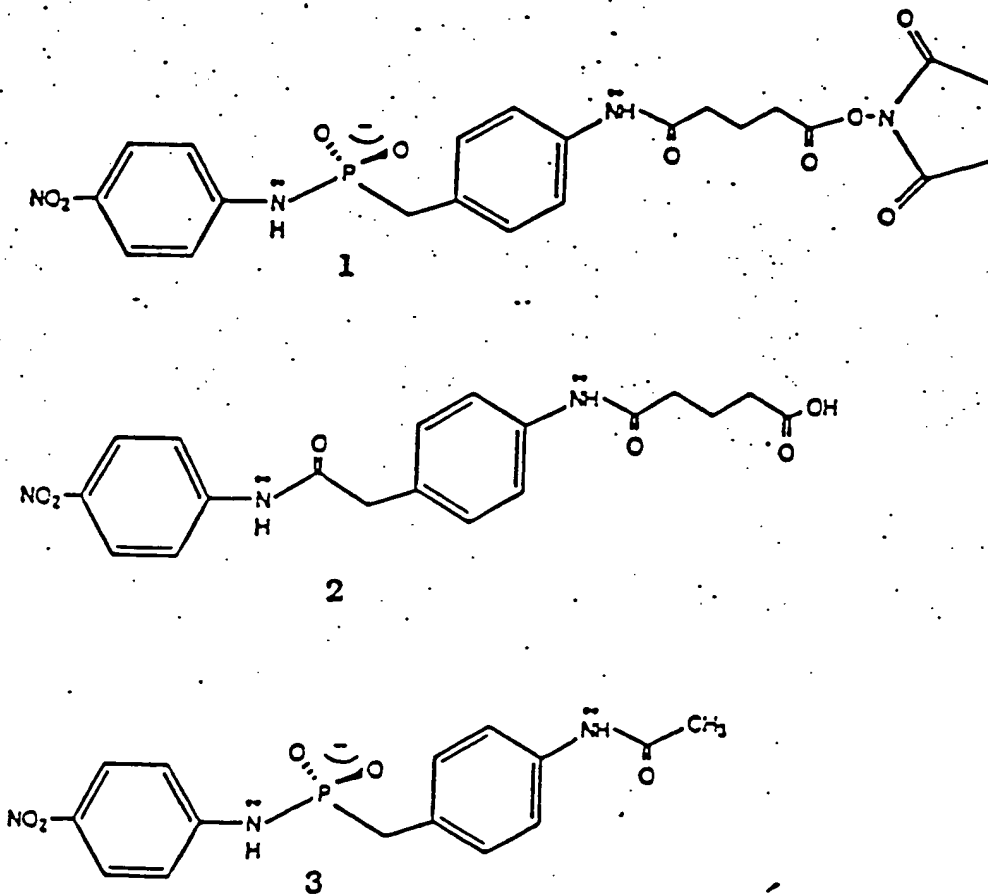


FIGURE 13



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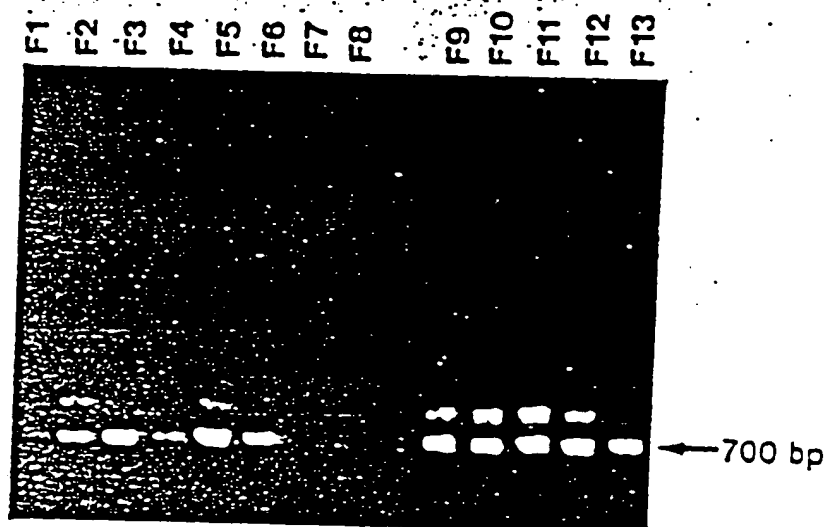


FIGURE 14



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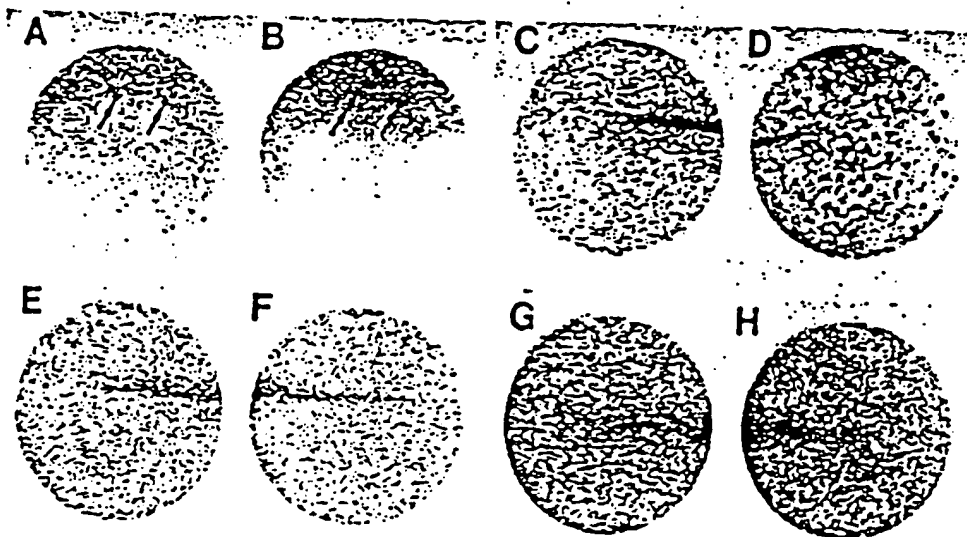


FIGURE 15



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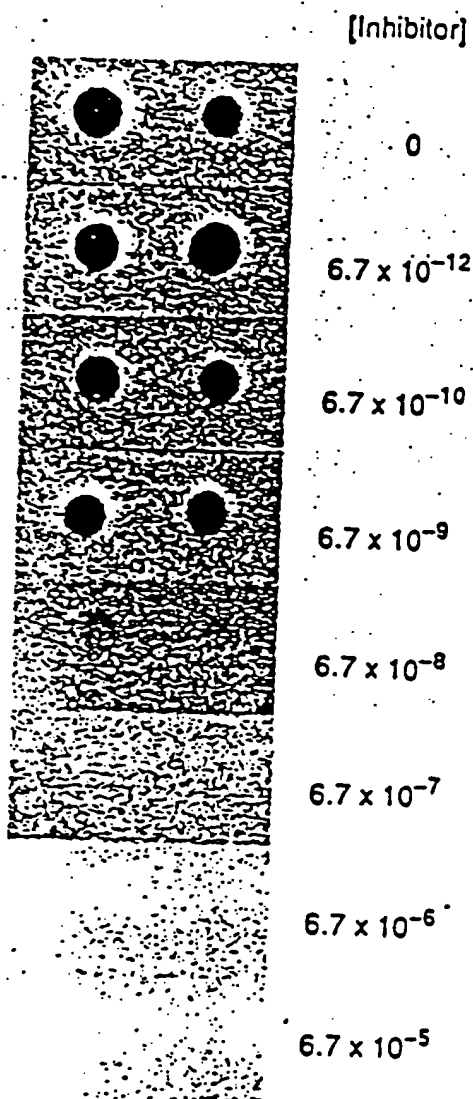


FIGURE 16



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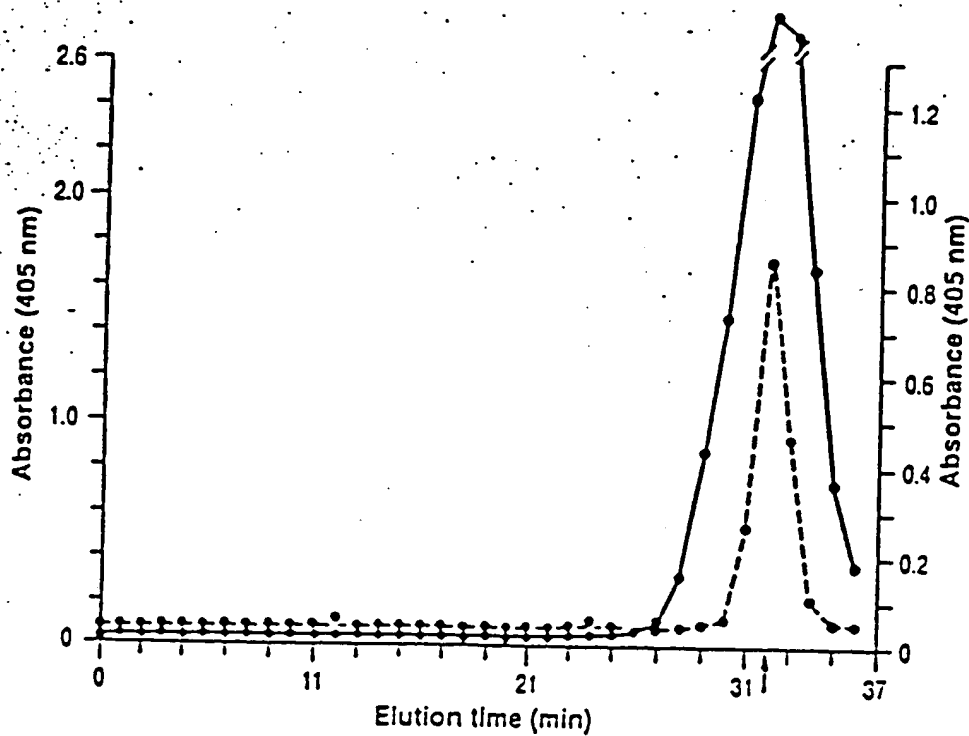


FIGURE 17



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SupF

5' TCGAGCGCCGATCCGCTTCCCGATAAGGGAGCAGGCCAGTAAAAGCATT
3' CGCGGCTAGGCGAAGGGCTATTCCCTCGTCCGGTCATTTTCGTAAT

CCTGTGGTGGGGTTCCCGAGCGGCCAAAGGGAGCAGACTCTAAATCTGCC
GGACACCACCCCAAGGGCTCGCCGGTTTCCCTCGTCTGAGATTTAGACGG

GTCATCGACTTCGAAGGTTCGAATCCTTCCCCCACCACCATCACTTTCAA
CAGTAGCTGAAGCTTCCAAGCTTAGGAAGGGGTGGTGGTAGTGAAAGTT

AAGTCCGACTAGTTACCCGTACGACGTTCCGGA CTACGTTCTTAATAG 3'
TTCA GGCTGATCAATGGGCATGCACGAAGGCCTCATGTGAAGAATTATCTTAA 5'

(SEQ ID NO:119)

B

SupF

5' CGCCCGATCCGCTTCCCGATAAGGGAGCAGGCCAGTAAAAGCATTACCTG
3' TCGTGCGGGCTAGGCGAAGGGCTATTCCCTCGTCCGGTCATTTTCGTAATGGAC

TGGTGGGGTTCCCAGCGGCCAAAGGGAGCAGACTCTAAATCTGCCGTCA
ACCACCCCAAGGGTCGCCGGTTTCCCTCGTCTGAGATTTAGACGGCAGT

TCGACTTCGAAGGTTCGAATCCTTCCCCCACCACCATCACTTTCAAAGT
AGCTGAAGCTTCCAAGCTTAGGAAGGGGTGGTGGTAGTGAAAGTTTCA

CCGACTAGGGCCT 3'
GGCTGATCCCGGAGATC 5'

(SEQ ID NO:120)

FIGURE 18



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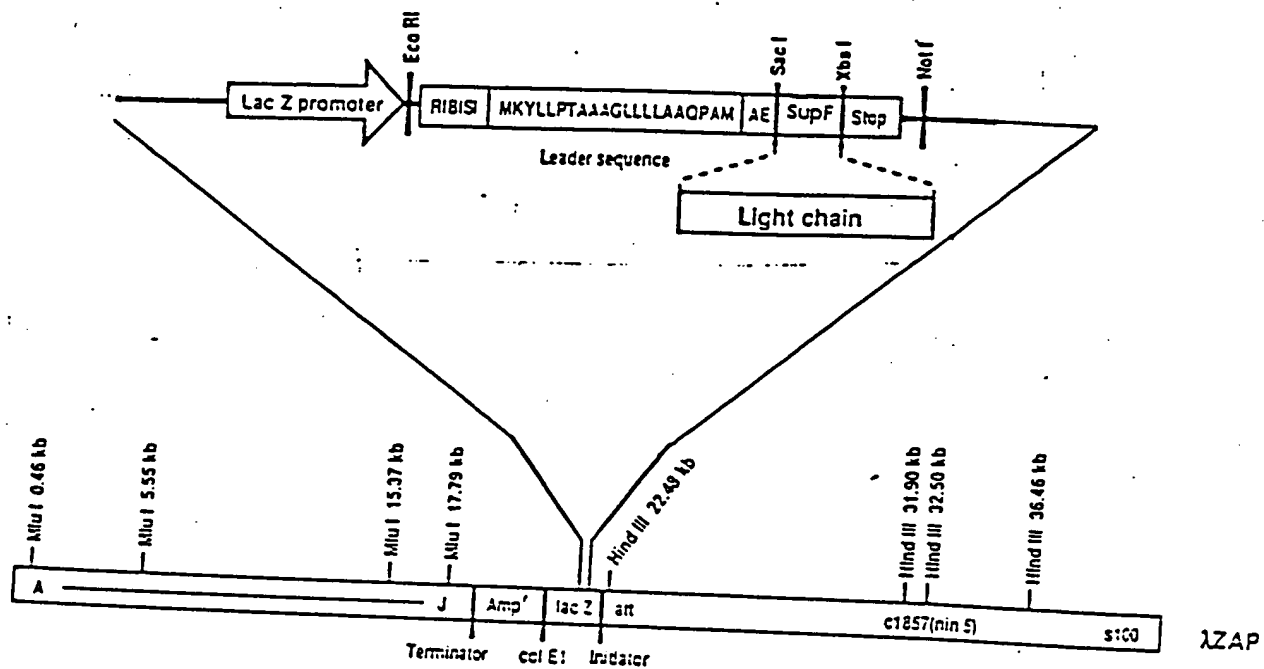


FIGURE 19A



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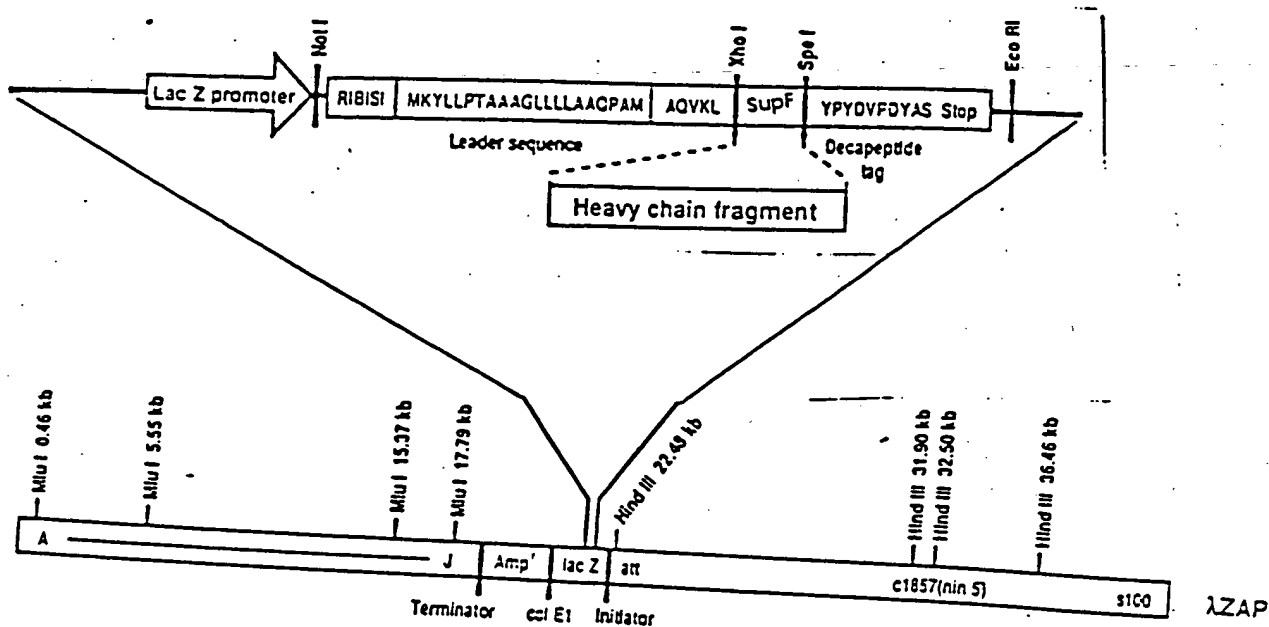


FIGURE 19B

